DATE: 04/20/2001

TIME: 07:41:14



PATENT APPLICATION: US/09/825,144

RAW SEQUENCE LISTING

Input Set : A:\ES.txt

OIPE

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Output Set: N:\CRF3\04202001\I825144.raw
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                                                                                  ENTERED
             Antonio S. Sechi
              Frank B. Gertler
             Jorgen Wehland
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     10 <130> FILE REFERENCE: M0656/7065
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        Gln Ala Arg Lys Asn Leu Phe Asn Asn Gln Gly Asn Ala Ser Pro Pro
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                                    40
        Ala Gly Pro Ser Asn Val Pro Lys Phe Gly Ser Pro Lys Pro Pro Val
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    41
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        Ala Val Lys Pro Ser Ser Glu Glu Lys Pro Asp Lys Glu Pro Lys Pro
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    43
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    47
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                                        105
                                                            110
    48
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    49
                115
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                                                         125
    50
        Phe Pro Trp Pro Pro Gly Asn Lys Pro Ser Leu His Ser Val Asn Gln
                                135
                                                     140
    52
        Asp His Asp Leu Lys Pro Leu Gly Pro Lys Ser Gly Pro Thr Pro Pro
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                            150
                                                 155
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                        165
        Lys Gly Lys Phe Met Ser Ala Ser Gln Asp Leu Glu Pro Lys Pro Leu
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Input Set : A:\ES.txt
Output Set: N:\CRF3\04202001\I825144.raw

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61		210					215					220				4
62	Ser	-	Ala	Pro	Leu	Glv		Ara	Ser	Lvs	Ser		Pro	Leu	Lvs	Pro
63	225					230		5		-1-	235	U-1			-1-	240
64		Ara	Glu	Asp	Ser		Asn	Lvs	Asp	His		Glv	Glu	Tle	Ser	
65		9	014	p	245	0_0		2,2		250					255	00-
66	T.e.ii	Pro	Phe	Pro		Va 1	Va1	T.e.ii	T.v.s		Ala	Δla	Ser	Ara		Glv
67	пси	110	1110	260	O ₁	, ,	, u .	Lou	265	110	1114	mu	001	270	013	011
68	T.e.u	Glv	Leu		Lvs	Asn	Glv	Glu		Lvs	Lvs	Glu	Asn		Lvs	Tle
69	ДСи		275	001	_, _	11011	011	280	014	275	270	0.10	285	9	270	110
70	Aen	Δla	Ala	T.ve	Δen	Thr	Dho		Ser	Lvc	Tle	Δcn		Glu	Glu	Leu
71	АЗР	290	niu	шуз	ASII	1111	295	OIII	JCI	ט עם		300	01.11	Olu	OIU	Dea
72	λla		Gly	Thr	Dro	Pro		Δra	Dho	Pro	Lvc		Pro	Sor	T.v.c	Len
73	305	Ser	GLY	1111	110	310	пта	nı 9	1110	110	315	AIU.	110	561	цуз	320
74		Va1	Gly	C1 v	Dro		G137	Gln	Sar	Gln		T.v.c	Glu	T.vc	G1v	
75	1111	Val	Gry	Gry	325	11.5	GLY	GIII	561	330	GIU	шуз	GLu	цуз	335	rob
76	Luc	λen	Ser	λ1 a		Dro	Larg	Gln	Lare		T.Qu	Dro	Dro	Len		Thr
77	цуз	ASII	261	340	1111	rio	цуs	GIII	345	110	пец	110	110	350	rne	1111
7 <i>8</i>	Lou	C1 v	Pro		Dro	Dro	Tuc	Dro		λνα	Dro	Dro	λan		λen	Lau
79	пеп	GLY	355	FIU	FIO	FIO	цуз	360	nan	AIG	FIO	110	365	Val	кэр	шец
80	Thr	Luc	Phe	uic	Twc	Thr	Sor		Clv	λen	Sor	Thr	-	Luc	Clv	Cln
81	1111	370	FIIE	1112	ьyэ	1111	375	261	СТУ	ASII	261	380	261	цуз	СТУ	GIII
82	Thr		Tyr	Cor	Thr	Thr		LOU	Dro	Dro	Dro		Dro	Sor	uic	Dro
83	385	561	ı yı	261	1111	390	Det	Бец	FIO	110	395	110	110	Ser	1113	400
84		Sor	Gln	Dro	Dro		Dro	λΊа	Sar	ніс		Sor	Gln	Dro	Pro	
85	ліа	261	GIII	FIU	405	пец	FIO	Ala	Der	410	110	Ser	GIII	110	415	Vai
86	Pro	Ser	Leu	Dro		Δrα	Aen	T1_	Lve		Pro	Dho	Aen	T.011		Sor
87	110	261	пец	420	110	ni 9	ASII	110	425	110	110	1 110	пор	430	цуз	JCI
88	Dro	Va 1	Asn		Nen	λen	Gln	Aen		Va l	Thr	Hic	Sar		G1v	Δla
89	110	Val	435	Oru	пор	Hom	0111	440	OLY	, u i	1111	1113	445	пор	OLI	niu
90	Glv	Δen	Leu	Aen	Glu	Glu	Gln		Ser	Glu	Glv	Glu		Tur	Glu	Asn
91	OLY	450	Lieu	пор	Gra	Gru	455	пор	JCI	Olu	GLY	460	1111	- y -	Olu	пър
92	Tlo		Ala	Sar	Lvc	Glu		Glu	Lwe	T.vc	Δτα		T.v.c	Glu	Glu	Luc
93	465	Giu	пта	Jer	_	470	пту	Oru	шуз	цуз	475	Oru	шуз	GIU	GIU	480
94		Δrσ	Leu	Glu			Lvs	Lvc	Glu	Gln		Glu	Lvc	Glu	T.vc	
95	נעם	nr 9	пси	Olu	485	Olu	цу	ט עם	Olu	490	נעם	OIu	цу	Olu	495	1
96	Glu	Gln	Glu	Tle		T.vc	T.vc	Phe	Lvs		Thr	Glv	Pro	T1_		Va 1
97	Olu	OIII	Olu	500	כעם	цуз	цуз	1110	505	шси	1111	OLY	110	510	0111	vu1
98	Tle	Ніс	Leu		T.vc	Δla	Cvc	Cve		Va l	T.vc	Glv	Glv		Δen	Glu
99	110	1113	515	AIG	Lys	ALU	CIS	520	пор	vul	ט עם	OL1	525	כעם	ASII	GIU
100	T.e.ı	1 501		T.37 C	z Glr	. G1s	, Gli		T16	. G1,	1 T16	. T14		τ T14	o ጥhi	Asp
101	nec	530		LIY C	, 011	1 01)	535			. 010		540		, 110	-, 1111	. nsp
101	Δer			. G1v	7 T.x76	יית חיי			Δτο	፣ ጥኮ፣	- A1=			, Ser	· 171177	Gly
102	545		916	, GT	, пув	550		т стУ	HI G	, 1111	555		(بدی و	261	. тул	. Gly 560
103			1 T 17.0	. ጥሎ~	· ጥሎ።			C1.	т1^) Nor			, Ca:	ים ד	1 T 177	Leu
105	тАт		- пуs	, T11T	565		, val	. 610		570		. nol	2 261	. nec	575	
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RAW SEQUENCE LISTING DATE: 04/20/2001 PATENT APPLICATION: US/09/825,144 TIME: 07:41:14

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Output Set: N:\CRF3\04202001\I825144.raw

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108	GIU	vaı		Asp	Asp	vaı	Ala		GIN	Asp	ASP	ire		ser	HIS	ser	
109		_	595	_				600	_	_	_	_	605	_	_		
110	GIn		GLy	Ser	Gly	Gly		Phe	Pro	Pro	Pro		Asp	Asp	Asp	lie	
111		610					615		_			620			_		
112	_	Asp	Gly	Ile	Glu		Glu	Asp	Ala	Asp	_	Gly	Phe	Pro	Ala		
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129	Gry	Lys	755	OLY	- Y -	vu.	LCu	760	DCI	- 1 -	БСи	ALU	765	ASH	пор	Gry	
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168															tatte)
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170	_	_	_		_	_					-				gatt		=)
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173			_				-		-		_	_	-		gcag)
174		-	-	-	_			_	_		-	-			cctat)
175	-	-	_							-			_	_	acago)
176		_							•						ctgca	•)
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183 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203	<213: <4000 Met 1 Asn Gln Ala Ala 65 Pro Ser Val Phe	SORO SECALA SerAla Gly 50 Val Phe Leu Gly Pro 130	Arg Arg Spro Lys Lys Lys Thr Pro 115	SM: H CE: ' Tyr Pro 20 Lys Ser Pro Lys Thr 100 Lys	Asn 5 Phe Asn Asn Ser Pro 85 Arg Pro	Thr Arg Leu Val Ser 70 Thr Asp Ile Gly	Gly Val Phe Pro 55 Glu Gly Pro Asn Asn 135	Thr Asn 40 Lys Glu Ala Glu Leu 120 Lys	Gly 25 Asn Phe Lys Gly Ala 105 Pro	10 Pro Gln Gly Pro Gln 90 Lys Lys Ser	Asn Gly Ser Asp 75 Arg Val Glu Leu	Ser Asn Pro 60 Lys Phe Gly Asp His 140	Ser Ala 45 Lys Glu Gly Phe Ser 125 Ser	Ser 30 Ser Pro Pro Thr Leu 110 Lys	15 Gly Pro Pro Lys Pro 95 Lys	Ile Pro Val Pro 80 Ala Pro Thr		
183 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	<213: <4000 Met 1 Asn Gln Ala Ala 65 Pro Ser Val Phe Asp 145	SORO SECALA SerAla SerAla Gly 50 Val Phe Leu Gly Pro 130 His	Arg Arg 35 Pro Lys Leu Thr Pro 115 Trp	SM: HECE: 4 Tyr Pro 20 Lys Ser Pro Lys Thr 100 Lys Pro Leu	Asn 5 Phe Asn Asn Ser Pro 85 Arg Pro Pro	Thr Arg Leu Val Ser 70 Thr Asp Ile Gly Pro 150	Gly Val Phe Pro 55 Glu Gly Pro Asn 135 Leu	Thr Asn 40 Lys Glu Ala Glu Leu 120 Lys	Gly 25 Asn Phe Lys Gly Ala 105 Pro	10 Pro Gln Gly Pro Gln 90 Lys Lys Ser Lys	Asn Gly Ser Asp 75 Arg Val Glu Leu Ser 155	Ser Asn Pro 60 Lys Phe Gly Asp His 140 Gly	Ser Ala 45 Lys Glu Gly Phe Ser 125 Ser Pro	Ser 30 Ser Pro Thr Leu 110 Lys Val	15 Gly Pro Pro Lys Pro 95 Lys Pro Asn	Ile Pro Val Pro 80 Ala Pro Thr Gln Pro 160		
183 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205	<213: <4000 Met 1 Asn Gln Ala Ala 65 Pro Ser Val Phe Asp 145	SORO SECALA SerAla SerAla Gly 50 Val Phe Leu Gly Pro 130 His	Arg Arg 35 Pro Lys Leu Thr Pro 115 Trp	SM: HECE: 4 Tyr Pro 20 Lys Ser Pro Lys Thr 100 Lys Pro Leu	Asn 5 Phe Asn Asn Ser Pro 85 Arg Pro Pro	Thr Arg Leu Val Ser 70 Thr Asp Ile Gly Pro 150	Gly Val Phe Pro 55 Glu Gly Pro Asn 135 Leu	Thr Asn 40 Lys Glu Ala Glu Leu 120 Lys	Gly 25 Asn Phe Lys Gly Ala 105 Pro	10 Pro Gln Gly Pro Gln 90 Lys Lys Ser Lys	Asn Gly Ser Asp 75 Arg Val Glu Leu Ser 155	Ser Asn Pro 60 Lys Phe Gly Asp His 140 Gly	Ser Ala 45 Lys Glu Gly Phe Ser 125 Ser Pro	Ser 30 Ser Pro Thr Leu 110 Lys Val	Pro Lys Pro 5 Lys Pro Asn	Ile Pro Val Pro 80 Ala Pro Thr Gln Pro 160		

RAW SEQUENCE LISTINGPATENT APPLICATION: US/09/825,144

DATE: 04/20/2001
TIME: 07:41:14

Input Set : A:\ES.txt

Output Set: N:\CRF3\04202001\I825144.raw

208 209	Lys	Gly	Lys	Phe 180	Met	Ser	Ala	Ser	Gln 185	Asp	Leu	Glu	Pro	Lys 190	Pro	Leu
210 211	Phe	Pro	Lys 195		Ala	Phe	Gly	Gln 200		Pro	Pro	Leu	Ser 205	Thr	Glu	Asn
212 213	Ser	His 210	Glu	Asp	Glu	Ser	Pro 215		Lys	Asn	Val	Ser 220	Ser	Ser	Lys	Gly
214 215	Ser 225	Pro	Ala	Pro	Leu	Gly 230	Val	Arg	Ser	Lys	Ser 235	Gly	Pro	Leu	Lys	Pro 240
216 217	Ala	Arg	Glu	Asp	Ser 245	Glu	Asn,	Lys	Asp	His 250	Ala	Gly	Glu	Ile	Ser 255	Ser
218 219	Leu	Pro	Phe	Pro 260	Gly	Val	Val	Leu	Lys 265	Pro	Ala	Ala	Ser	Arg 270	Gly	Gly
220 221	Leu	Gly	Leu 275	Ser	Lys	Asn	Gly	Glu 280	Glu	Lys	Lys	Glu	Asp 285	Arg	Lys	Ile
222 223	Asp	Ala 290	Ala	Lys	Asn	Thr	Phe 295	Gln	Ser	Lys	Ile	Asn 300	Gln	Glu	Glu	Leu
224 225	Ala 305	Ser	Gly	Thr	Pro	Pro 310	Ala	Arg	Phe	Pro	Lys 315	Ala	Pro	Ser	Lys	Leu 320
226 227	Thr	Val	Gly	Gly	Pro 325	Trp	Gly	Gln	Ser	Gln 330	Glu	Lys	Glu	Lys	Gly 335	Asp
228 229	Lys	Asn	Ser	Ala 340	Thr	Pro	Lys	Gln	Lys 345	Pro	Leu	Pro	Pro	Leu 350	Phe	Thr
230 231	Leu	Gly	Pro 355	Pro	Pro	Pro	Lys	Pro 360	Asn	Arg	Pro	Pro	Asn 365	Val	Asp	Leu
232 233	Thr	Lys 370	Phe	His	Lys	Thr	Ser 375	Ser	Gly	Asn	Ser	Thr 380	Ser	Lys	Gly	Gln
234 235	Thr 385	Ser	Tyr	Ser	Thr	Thr 390	Ser	Leu	Pro	Pro	Pro 395	Pro	Pro	Ser	His	Pro 400
236 237	Ala	Ser	Gln	Pro	Pro 405	Leu	Pro	Ala	Ser	His 410	Pro	Ser	Gln	Pro	Pro 415	Val
238 239	Pro	Ser	Leu	Pro 420	Pro	Arg	Asn	Ile	Lys 425	Pro	Pro	Phe	Asp	Leu 430	Lys	Ser
240 241	Pro	Val	Asn 435	Glu	Asp	Asn	Gln	Asp 440	Gly	Val	Ťhr	His	Ser 445	Asp	Gly	Ala
242 243	Gly	Asn 450	Leu	Asp	Glu	Glu	Gln 455	Asp	Ser	Glu	Gly	Glu 460	Thr	Tyr	Glu	Asp
244 245	Ile 465	Gļu	Ala	Ser	Lys	Glu 470	Arg	Glu	Lys	Lys	Arg 475	Glu	Lys	Glu	Glu	Lys 480
246 247	Lys	Arg	Leu	Glu	Leu 485	Glu	Lys	Lys	Glu	Gln 490	Lys	Glu	Lys	Glu	Lys 495	Lys
248 249	Glu	Gln	Glu	Ile 500	Lys	Lys	Lys	Phe	Lys 505	Leu	Thr	Gly	Pro	Ile 510	Gln	Val
250 251	Ile	His	Leu 515	Ala	Lys	Ala	Cys	Cys 520	Asp	Val	Lys	Gly	Gly 525	Lys	Asn	Glu
252 253		530	Phe	_			535					540				-
254 255	Asn 545	Pro	Glu	Gly	Lys	Trp 550	Leu	Gly	Arg	Thr	Ala 555	Arg	Gly	Ser	Tyr	Gly 560
256	Tyr	Ile	Lys	Thr	Thr	Ala	Val	Glu	Ile	Asp	Tyr	Asp	Ser	Leu	Lys	Leu

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Pleas review the Sequence Listing t ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/825,144

DATE: 04/20/2001 TIME: 07:41:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\04202001\I825144.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8